

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 1 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Strike the entire sequence listing (col. 31/32, line 15, through col. 53/54, line 10) and replace it with the following

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**SEQUENCE LISTING**

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<213> ORGANISM: Artificial Sequence

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<223> OTHER INFORMATION: vector

<220> FEATURE:

<223> OTHER INFORMATION: sense orientation

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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<211> LENGTH: 9209  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 10 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Page 11 of 24

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Page 12 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

tcgagctact	agctttgctt	ctcaatttct	tatttgcata	atgagaaaaa	aaggaaaatt	5580
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aatcggctgc	tctgatgccg	ccgtgttccg	gctgtcagcg	caggggcgcc	cggttctttt	6060
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Page 13 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

attgttatcc	gtcaccaatt	ccacacaaca	tacgagccgg	aagcataaag	tgtaaagcct	7140
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UNITED STATES PATENT AND TRADEMARK OFFICE  
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PATENT NO. : 7,381,560 B2  
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INVENTOR(S) : D. R. Anderson et al.

Page 14 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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UNITED STATES PATENT AND TRADEMARK OFFICE  
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PATENT NO. : 7,381,560 B2  
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DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 15 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 3  
<211> LENGTH: 384  
<212> TYPE: DNA  
<213> ORGANISM: *Mus musculus*

<220> FEATURE:  
<223> OTHER INFORMATION: sense orientation

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gtcacaatga cttgcagggc cagcctgtct gcatctccag gggagaaggc cacaatgact 180  
tgcaggggcca gccccaaacc ctggatttat gccacatcca acctggcttc tggagtcctt 240  
gttcgcttca gtggcagtgg gtctgggact tcttactctc tcacaatcag cagagtggag 300  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
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PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 4  
<211> LENGTH: 128  
<212> TYPE: PRT  
<213> ORGANISM: Mus musculus

<400> SEQUENCE: 4

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			20					25					30		
Leu	Ser	Ala	Ser	Pro	Gly	Glu	Lys	Val	Thr	Met	Thr	Cys	Arg	Ala	Ser
			35				40					45			
Ser	Ser	Val	Ser	Tyr	Ile	His	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Ser	Ser
		50				55					60				
Pro	Lys	Pro	Trp	Ile	Tyr	Ala	Thr	Ser	Asn	Leu	Ala	Ser	Gly	Val	Pro
65					70					75				80	
Val	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Ser	Tyr	Ser	Leu	Thr	Ile
				85					90					95	
Ser	Arg	Val	Glu	Ala	Glu	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Trp
			100					105					110		
Thr	Ser	Asn	Pro	Pro	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys
			115				120						125		



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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 5  
<211> LENGTH: 420  
<212> TYPE: DNA  
<213> ORGANISM: *Mus musculus*

<220> FEATURE:  
<223> OTHER INFORMATION: sense orientation

<400> SEQUENCE: 5  
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INVENTOR(S) : D. R. Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 6  
<211> LENGTH: 140  
<212> TYPE: PRT  
<213> ORGANISM: *Mus musculus*

<400> SEQUENCE: 6

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			20				25						30		
Pro	Gly	Ala	Ser	Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe
			35				40					45			
Thr	Ser	Tyr	Asn	Met	His	Trp	Val	Lys	Gln	Thr	Pro	Gly	Arg	Gly	Leu
			50			55					60				
Glu	Trp	Ile	Gly	Ala	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn
65					70				75					80	
Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Ser
			85					90					95		
Thr	Ala	Tyr	Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val
			100					105					110		
Tyr	Tyr	Cys	Ala	Arg	Ser	Thr	Tyr	Tyr	Gly	Gly	Asp	Trp	Tyr	Phe	Asn
			115				120					125			
Val	Trp	Gly	Ala	Gly	Thr	Thr	Val	Thr	Val	Ser	Ala				
			130				135				140				

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INVENTOR(S) : D. R. Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 7  
<211> LENGTH: 27  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence

<220> FEATURE:  
<223> OTHER INFORMATION: impaired Kozak sequence and restriction enzyme site

<220> FEATURE:  
<223> OTHER INFORMATION: sense orientation

<400> SEQUENCE: 7  
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27

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INVENTOR(S) : D. R. Anderson et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 8  
<211> LENGTH: 47  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence  
  
<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer  
  
<220> FEATURE:  
<223> OTHER INFORMATION: sense orientation  
  
<400> SEQUENCE: 8  
atcacagatc tctcaccatg gattttcagg tgcagattat cagcttc

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 21 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 9  
<211> LENGTH: 30  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence  
  
<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer  
  
<220> FEATURE:  
<223> OTHER INFORMATION: antisense orientation  
  
<400> SEQUENCE: 9  
tgcagcatcc gtacgtttga tttccagctt

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 22 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 10  
<211> LENGTH: 27  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence  
  
<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer  
  
<220> FEATURE:  
<223> OTHER INFORMATION: sense orientation  
  
<400> SEQUENCE: 10  
gcggctccca cgcgtgtcct gtcccag

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UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 23 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 11  
<211> LENGTH: 29  
<212> TYPE: DNA  
<213> ORGANISM: Artificial Sequence  
  
<220> FEATURE:  
<223> OTHER INFORMATION: PCR Primer  
  
<220> FEATURE:  
<223> OTHER INFORMATION: antisense orientation  
  
<220> FEATURE:  
<221> misc\_feature  
<222> LOCATION: (1)..(29)  
<223> OTHER INFORMATION: s is g or c  
  
<220> FEATURE:  
<221> misc\_feature  
<222> LOCATION: (1)..(29)  
<223> OTHER INFORMATION: m is a or c  
  
<220> FEATURE:  
<221> misc\_feature  
<222> LOCATION: (1)..(29)  
<223> OTHER INFORMATION: r is g or a

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,381,560 B2  
APPLICATION NO. : 09/911692  
DATED : June 3, 2008  
INVENTOR(S) : D. R. Anderson et al.

Page 24 of 24

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 11  
ggatgttgtg ctagctgmrg agacrgtga .

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Signed and Sealed this

Second Day of September, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*